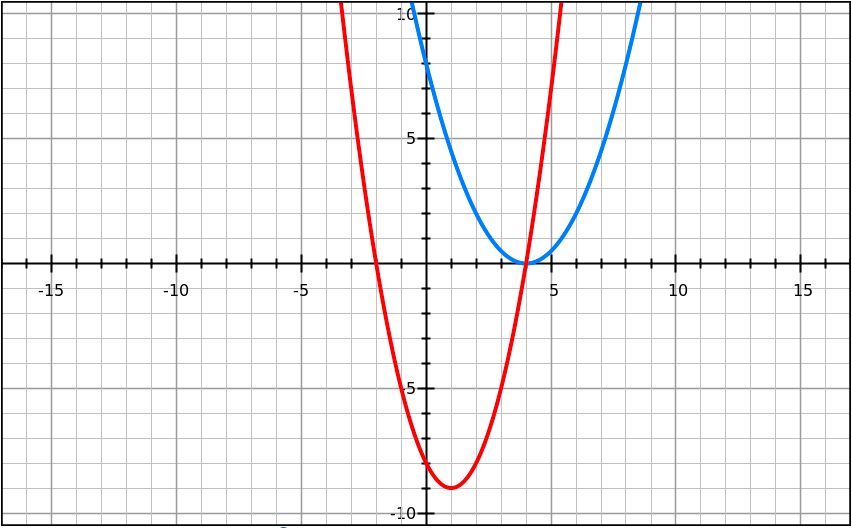
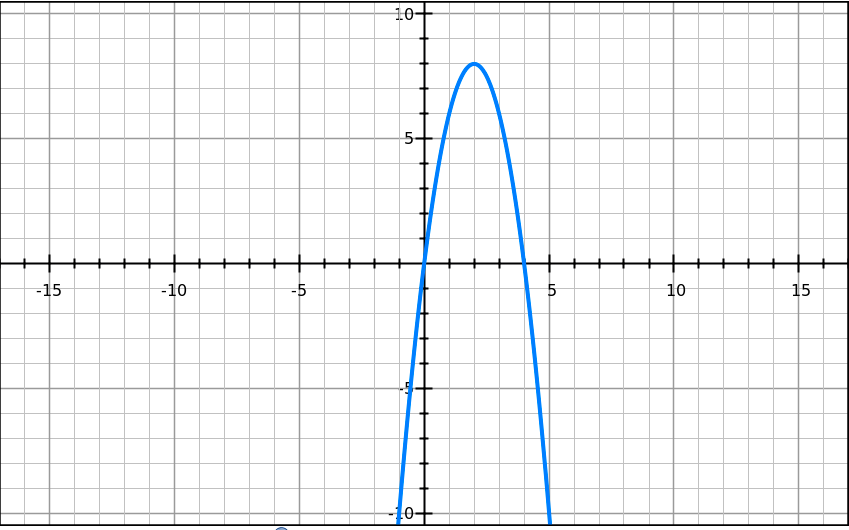
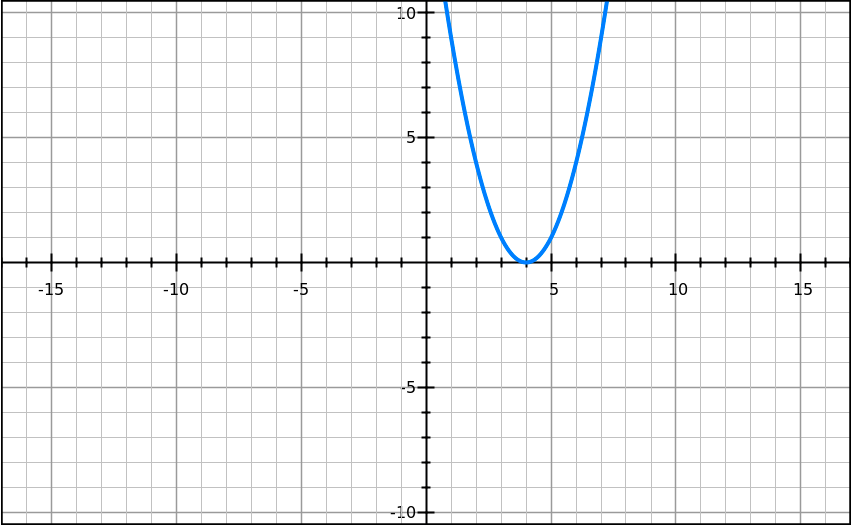
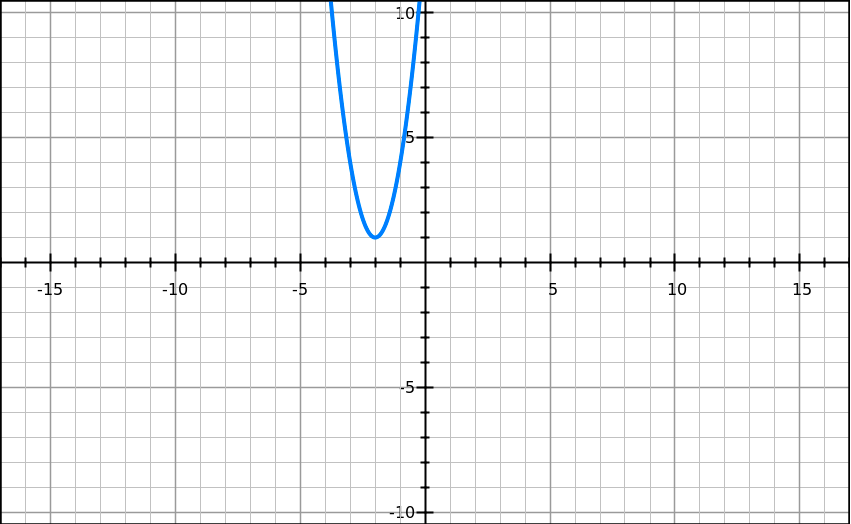
Name:

Date:



Find each equation. Then find the solution to the system of equations.

**Questions:**

1. How many zeroes does any quadratic have?  
   1. List the combinations of types of zeroes you can have for a quadratic function
2. The three forms of quadratic functions are below. For each type, write the formula and tell how you would graph the function.  
   1. Standard form:
   2. Vertex form:
   3. Factored form:
3. Use the quadratic formula: to prove that the *x*-value of the vertex is .
4. Write the factored, vertex, and standard form for each function.  
     
     
     
     
     
     
     
     
   
5. A function, *f(x),* is shown below. Another function, *g(x) = x*2 -16*x* +55, exists on the same plane. Which is greater:
   1. *f*(8) or *g*(8)?
   2. *f*(7) or *g*(7)?
   3. *f*(4) or *g*(4)?

1. Graph *g(x) = x*2 -16*x* +55  
   